Press Service

THE PLANT DISEASE REPORTER

Issued By

Division of Mycology and Disease Survey

Supplement 108

Crop Losses from Plant Diseases in the United States

1937

December 1, 1938.

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1937

Compiled by

Jessie I. Wood

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Table 1. Estimated reduction in yield from scab (Gibberella saubinetii), leaf rust (Puccinia rubigo-vera tritici), stem rust (P. graminis), bunt (Tilletia spp.), loose smut (Ustilago tritici).

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases: Scab %	Scab 1,000 Bushels	Leaf Rust %	Leaf Rust 1,000 Bushels	Stem Rust %	Stem Rust 1,000 Bushels	Bunt %	Bunt 1,000 Bushels	Loose Smut %	Loose Smut 1,000 Bushels
*Maine	76	-	-	-	-	-	-	-	-	-	-
N.Y.	8,276	-	-	20.	2,283	0.5	57	1.5	171	0.8	91
*N.J.	1,462	-	-	-	-	-	-	-	-	-	-
Pa.	23,573	1.	308	12.	3,698	3.	924	3.5	1,078	2.	616
Ohio	46,136	1.	508	5.	2,538	2.	1,015	1.	508	t	+
Ind.	34,718	0	0	10.	4,509	12.	5,411	t	+	1.	451
Ill.	45,724	0.3	180	5.	3,004	11.	6,609	0.3	180	1.	601
Mich.	18,658	0.5	105	5.	1,048	2.5	524	2.	419	0.5	105
Wis.	2,043	t	+	2.	53	19.8	524	1.	26	t	+
Minn.	35,784	t	+	1.	416	10.	4,161	0.5	208	0.5	208
Iowa	15,976	0.5	118	6.	1,414	19.	4,477	0.2	47	1.	236
Mo.	41,207	-	-	-	-	30.	17,660	-	-	-	-
N.D.	58,013	t	+	0.5	403	25.	20,144	0.3	242	0.2	161
S.D.	15,201	t	+	2.	380	12.	2,280	1.	190	3.	570
Nebr.	47,184	-	-	-	-	6.	3,012	-	-	-	-
Kans.	158,052	-	-	0.4	728	6.6	12,018	1.	1,821	0.2	364
*Del.	1,376	-	-	-	-	-	-	-	-	-	-
Md.	9,044	1.5	145	1.	97	t	+	2.5	242	1.5	145
Va.	9,720	1.5	162	0.5	54	2.	216	2.5	269	0.8	86
*W.Va.	2,736	-	-	-	-	-	-	-	-	-	-
N.C.	5,817	1.	69	7.	485	-	-	1.	69	1.	69
*S.C.	1,416	-	-	-	-	-	-	-	-	-	-
Ga.	1,445	-	-	30.	638	-	-	t	+	2.	43
Ky.	10,212	t	+	5.	549	t	+	1.	110	1.	110
Tenn.	6,750	t	+	2.	156	8.	624	3.	234	0.5	39
*Ala.	77	-	-	-	-	-	-	-	-	-	-
*Ark.	1,050	-	-	-	-	-	-	-	-	-	-
Okla.	65,462	-	-	1.	700	1.	700	1.5	1,050	3.	2,100
Texas	41,690	t	+	1.	423	t	+	-	-	-	-
Mont.	21,918	0	0	t	+	0	0	0.5	110	t	+
Idaho	28,360	0	0	t	+	t	+	5.	1,501	t	+
Wyo.	3,060	0	0	t	+	t	+	1.5	47	-	-
*Colo.	15,857	0	0	-	-	t	+	-	-	-	-
*N.M.	3,139	0	0	-	-	-	-	-	-	-	-
*Ariz.	1,035	0	0	-	-	-	-	-	-	-	-
*Utah	5,430	0	0	-	-	-	-	-	-	-	-
*Nev.	409	0	0	-	-	-	-	-	-	-	-
*Wash.	48,725	0	0	-	-	-	-	-	-	-	-
Oreg.	20,424	0	0	t	+	t	+	1.	208	0	0
*Calif.	16,758	0	0	-	-	-	-	-	-	-	-
U.S.	873,993	0.2	1,595	2.6	23,576	8.8	80,356	1.	8,730	0.7	5,995

* Omitted in calculations for U. S. percentage loss.

Foot rots (various organisms), speckled leaf blotch (Septoria tritici), glume blotch (S. nodorum), and other diseases, 1937.

State	Estimated reduction in yield due to diseases										All Diseases	
	Foot Rots		Speckled Leaf Blotch		Glume Blotch							
	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels		
Maine	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	t	+	0.8	91	1.4	160	27.5	3,138				
N.J.	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	t	+	t	+	2.	616	23.5	7,240				
Ohio	-	-	-	-	0.1	51	9.1	4,620				
Ind.	-	-	t	+	0	0	23.	10,371				
Ill.	-	-	6.	3,605	0.2	120	23.9	14,359				
Mich.	-	-	0.2	42			11.	2,306				
Wis.	-	-	t	+	-	-	22.8	603				
Minn.	2.	832	0	0	0	0	14.	5,825				
Iowa	5.	1,178	0.1	24	0.4	94	32.2	7,588				
Mo.	-	-	-	-	-	-	30.	17,660				
N.D.	2.	1,611	-	-	-	-	28.	22,561				
S.D.	2.	380	-	-	-	-	20.	3,800				
Nebr.	-	-	-	-	-	-	6.	3,012				
Kans.	5.	9,104	-	-	-	-	13.2	24,035				
Del.	-	-	-	-	-	-	-	-	-	-	-	-
Md.	t	+	-	-	t	+	6.5	629				
Va.	0.5	54	1.	108	0.5	54	9.8	1,057				
W.Va.	-	-	-	-	-	-	-	-	-	-	-	-
N.C.	t	+	-	-	1.	69	16.	1,107				
S.C.	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	32.	681				
Ky.	-	-	-	-	t	+	7.	769				
Tenn.	t	+	-	-	-	-	13.5	1,053				
Ala.	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	6.5	4,550				
Texas	-	-	-	-	-	-	1.5	635				
Mont.	0.1	22	-	-	-	-	0.6	132				
Idaho	t	+	-	-	0	0	5.5	1,651				
Wyo.	-	-	-	-	-	-	1.5	47				
Colo.	-	-	-	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	0.5	104	0.1	21	0	0	1.6	333				
Calif.	-	-	-	-	-	-	-	-	-	-	-	-
U.S.	1.5	13,285	0.4	3,891	0.1	1,164	15.4	139,762				

Table 2. Estimated reduction in yield from stripe (Helminthosporium gramineum), spot blotch (Helminthosporium sativum), foot rots (Helminthosporium, Fusarium, Cercosporella, Ophiobolus, etc.), loose smut (Ustilago spp.), covered smut (U. hordei).

State	Production	Estimated reduction in yield due to diseases											
		Stripe		Spot Blotch		Foot Rots		Loose Smut		Covered Smut			
	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels		
*Maine	112	-	-	-	-	-	-	-	-	-	-		
*Vt.	120	-	-	-	-	-	-	-	-	-	-		
N.Y.	3,059	-	-	t	+	-	-	0.4	14	3.	102		
*N.J.	30	-	-	-	-	-	-	-	-	-	-		
Pa.	1,827	0.3	6	1.	22	-	-	3.5	75	9.4	202		
Ohio	800	t	+	-	-	-	-	0.5	4	1.	8		
Ind.	648	-	-	-	-	-	-	t	+	t	+		
Ill.	3,712	1.3	66	0.5	25	-	-	2.7	137	1.	51		
Mich.	4,545	-	-	t	+	-	-	0.1	5	0.2	9		
Wis.	22,022	0.3	67	0.8	179	-	-	1.6	358	0.8	179		
Minn.	51,536	0.5	277	t	+	1.	554	t	+	0.5	277		
Iowa	11,840	t	+	3.	559	6.	1,119	0.5	93	2.5	466		
*Mo.	2,294	-	-	-	-	-	-	-	-	-	-		
N.D.	21,120	t	+	t	+	1.	233	t	+	0.5	117		
S.D.	20,068	1.	223	-	-	t	+	2.	446	4.	892		
Nebr.	10,642	-	-	-	-	-	-	-	-	-	-		
Kans.	3,129	-	-	-	-	-	-	-	-	4.	130		
Md.	1,188	t	+	-	-	-	-	2.	25	3.	38		
Va.	1,363	1.5	23	1.	15	0.5	8	2.5	39	3.	46		
W.Va.	135	-	-	-	-	-	-	5.	8	7.5	12		
N.C.	180	3.	6	2.	4	t	+	1.	2	1.	2		
Ky.	910	-	-	-	-	-	-	t	+	4.	40		
Tenn.	594	-	-	-	-	-	-	5.	35	10.	70		
Okla.	2,048	-	-	-	-	-	-	5.	108	-	-		
*Texas	1,766	-	-	-	-	-	-	-	-	-	-		
Mont.	2,093	0.1	2	0	0	t	+	t	+	1.	21		
Idaho	3,708	t	+	-	-	t	+	t	+	t	+		
Wyo.	1,380	0.1	1	-	-	-	-	0.1	1	1.5	21		
*Colo.	8,772	-	-	-	-	-	-	-	-	-	-		
*N.M.	147	-	-	-	-	-	-	-	-	-	-		
*Ariz.	580	-	-	-	-	-	-	-	-	-	-		
*Utah	2,379	-	-	-	-	-	-	-	-	-	-		
*Nev.	304	-	-	-	-	-	-	-	-	-	-		
*Wash.	2,074	-	-	-	-	-	-	-	-	-	-		
Oreg.	4,160	t	+	t	+	1.	43	t	+	0.2	9		
*Calif.	28,350	-	-	-	-	-	-	-	-	-	-		
U. S.	219,635	0.3	671	0.4	804	1.	1,957	0.7	1,350	1.4	2,692		

* Omitted in calculations for U. S. percentage loss.

Scab (Gibberella saubinetii), powdery mildew (Erysiphe graminis), leaf rust (Puccinia rubigo-vera tritici and P. anomala), stem rust (P. graminis), and other diseases, 1937.

State	Estimated reduction in yield due to diseases											
	Scab		Powdery Mildew		Leaf Rust		Stem Rust		All Diseases			
	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-	-	-	-	-
N. Y.	t	+	7.	239	t	+	t	+	10.4	355		
N. J.	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	t	+	-	-	0.5	11	0.5	11	15.2	327		
Ohio	-	-	-	-	t	+	t	+	1.5	12		
Ind.	-	-	t	+	t	+	0	0	t	+		
Ill.	0.1	5	t	+	1.	51	20.	1,011	26.6	1,346		
Mich.	0.5	23	-	-	t	+	t	+	0.8	37		
Wis.	1.	224	0.5	112	-	-	12.	2,688	17.	3,807		
Minn.	t	+	0	0	0	0	5.	2,771	7.	3,879		
Iowa	0.5	93	1.	186	t	+	15.	2,797	36.5	6,805		
Mo.	-	-	-	-	-	-	0	0	-	-		
N. D.	t	+	-	-	-	-	8.	1,867	9.5	2,217		
S. D.	t	+	-	-	t	+	3.	669	10.	2,230		
Nebr.	-	-	-	-	-	-	2.	231	2.	231		
Kans.	-	-	-	-	-	-	-	-	4.	130		
Md.	1.5	19	t.	+	-	-	t	+	6.5	82		
Va.	1.	15	2.	31	0.5	8	0	0	12.	185		
W. Va.	-	-	-	-	-	-	-	-	12.5	20		
N. C.	t	+	1.	2	t	+	-	-	11.	22		
Ky.	t	+	2.	20	2.	20	-	-	8.	80		
Tenn.	-	-	-	-	-	-	-	-	15.	105		
Okla.	-	-	-	-	-	-	-	-	5.	108		
Texas	-	-	-	-	-	-	-	-	-	-		
Mont.	-	-	-	-	-	-	-	-	1.1	23		
Idaho	-	-	-	-	0	0	t	+	t	+		
Wyo.	-	-	-	-	-	-	0.1	1	2.	27		
Colo.	-	-	-	-	-	-	0	0	-	-		
N. M.	-	-	-	-	-	-	-	-	-	-		
Ariz.	-	-	-	-	-	-	-	-	-	-		
Utah	-	-	-	-	-	-	-	-	-	-		
Nev.	-	-	-	-	-	-	-	-	-	-		
Wash.	-	-	-	-	-	-	-	-	-	-		
Oreg.	0	0	0.2	9	-	-	-	-	3.4	147		
Calif.	-	-	-	-	-	-	-	-	-	-		
U. S.	0.2	379	0.3	599	t	90	6.2	12,046	11.3	22,175		

RYE

Table 3. Estimated reduction in yield due to smut (Urocystis occulta), ergot (Claviceps purpurea), leaf rust (Puccinia rubigo-vera secalis), stem rust (P. graminis), foot rots (various organisms), anthracnose (Colletotrichum graminicolum), and other diseases, 1937.

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases																			
		Smut		Ergot		Leaf Rust		Stem Rust		Foot Rots		Anthracnose		All Diseases							
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels						
N. Y.	508	-	-	-	-	-	-	t	+	-	-	-	+	-	-						
N. J.	374	-	-	-	-	-	-	-	-	-	-	-	+	-	-						
Pa.	1,185	t	+	t	+	5.	66	t	+	-	-	5.	66	10.	132						
Ohio	580	t	+	t	+	2.	12	0	0	-	-	-	-	2.	12						
Ind.	2,025	-	-	t	+	t	+	-	-	-	-	t	+	t	+						
Ill.	1,827	0.5	10	t	+	2.	38	0	0	-	-	0.5	10	4.	77						
Mich.	1,656	-	-	0.1	2	-	-	0	0	0.1	2	0.1	2	0.3	6						
Wis.	4,590	t	+	1.	47	0.5	23	0	0	t	+	0.5	23	2.	93						
Minn.	10,716	t	+	0.5	54	0	0	0	0	t	+	0	0	0.5	54						
Iowa	3,534	0	0	0.7	26	0.1	4	0.1	4	2.1	77	0.1	4	3.1	115						
Mo.	578	-	-	-	-	-	-	0	0	-	-	-	+	-	-						
N. D.	6,720	0	0	0.5	34	0	0	0	0	t	+	-	-	0.5	34						
S. D.	6,108	-	-	3.	189	-	-	0	0	-	-	-	-	3.	189						
Nebr.	3,900	-	-	-	-	-	-	t	+	-	-	-	-	-	-						
Kans.	966	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Del.	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Md.	208	-	-	0.5	1	-	-	-	-	-	-	-	-	0.5	1						
Va.	525	0.1	+	0.1	+	0.5	3	0	0	0.5	3	-	-	1.2	6						
W. Va.	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
N. C.	465	-	-	-	-	t	+	-	-	t	+	5.	25	8.	40						
S. C.	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Ga.	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Ky.	312	-	-	t	+	-	-	-	-	-	-	-	-	-	-						
Tenn.	308	t	+	t	+	t	+	-	-	-	-	-	-	t	+						
Okla.	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

Rye (Continued).

Rye (Continued).

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases																	
		Smut		Ergot		Leaf Rust		Stem Rust		Foot Rots		Anthracnose		All Diseases					
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Texas	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	198	-	-	t	+	0	0	0	0	t	+	-	-	-	-	t	+		
*Idaho	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wyo.	168	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-
*Colo.	382	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-
*Utah	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	600	0	0	t	+	t	+	t	+	0.1	1	0	0	0.1	1				
*Calif.	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	49,449	t	10	0.8	353	0.3	146	t	4	0.2	83	0.3	130	1.8	760				

* Omitted in calculations for U. S. percentage loss.

Table 4. Estimated reduction in yield due to loose smut (Ustilago avenae), covered smut (U. levis), stem rust (Puccinia graminis), crown rust (P. coronata), foot rot (Fusarium spp.), blast (non-parasitic), and other diseases, 1937.

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases: Loose Smut %	Loose Smut 1,000 Bushels	Covered Smut %	Covered Smut 1,000 Bushels	Stem Rust %	Stem Rust 1,000 Bushels	Crown Rust %	Crown Rust 1,000 Bushels	Foot Rot %	Foot Rot 1,000 Bushels	Blast %	Blast 1,000 Bushels	All Diseases %	All Diseases 1,000 Bushels
*Maine	3,955	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. H.	280	1.	3	-	-	-	-	-	-	-	-	-	-	1.	3
*Vt.	1,540	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Mass.	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*R. I.	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	174	2.	4	2.	4	-	-	5.	10	-	-	-	-	9.	18
N. Y.	18,800	1.5	606			2.	809	25.	10,108	-	-	15.	6,065	53.5	21,631
*N. J.	1,530	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	24,705	14.	4,557			8.	2,604	0.1	33	-	-	1.	325	24.1	7,844
Ohio	35,511	1.	374	1.	374	t	+	3.	1,121	-	-	-	-	5.	1,869
Ind.	45,973	1.	469	1.	469	t	+	t	+	-	-	t	+	2.	938
Ill.	162,208	2.7	5,427			0	0	0.5	1,005	-	-	15.5	31,155	19.3	38,793
Mich.	34,272	1.	348	0.2	70	0.1	35	0.1	35	0.1	35	-	-	1.6	558
Wis.	79,360	4.	3,488	2.	1,744	0	0	2.	1,744	-	-	1.	872	9.	7,848
Minn.	165,321			3.	5,166	0	0	0	0	t	+	-	-	4.	6,888
Iowa	258,975	4.	11,384	1.	2,846	0.5	1,423	1.	2,846	0.5	1,423	0.5	1,423	9.	25,614
*Mo.	43,400	-	-	-	-	t	+	-	-	-	-	-	-	-	-
N. D.	29,902	0.5	152	0.5	152	0	0	t	+	t	+	0	0	1.5	456
S. D.	31,269	1.	319	1.	319	0	0	t	+	-	-	-	-	2.	638
*Nebr.	35,637	-	-	-	-	0	0	-	-	-	-	-	-	-	-
Kans.	35,376	3.5	1,283			t	+	t	+	-	-	-	-	3.5	1,283
*Del.	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	1,083	5.	59	1.	12	t	+	2.	24	-	-	-	-	8.	95
Va.	1,680	3.	55	3.5	64	t	+	1.	18	t	+	0.5	9	8.5	155
*W. Va.	1,520	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. C.	4,830	1.	55	-	-	-	-	5.	274	-	-	1.	55	12.	659
*S. C.	10,076	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Oats (Continued)

Oats (Continued)

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases. Loose Smut		Covered Smut		Stem Rust		Crown Rust		Foot Rot		Blast		All Diseases	
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Ga.	8,658	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ky.	1,848	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	1,480	3.	48	3.	48	1.	16	-	-	-	-	-	-	7.	112
*Ala.	2,646	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	1,428	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ark.	3,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	1,395	1.	16			t	+	10.	159	-	-	-	-	12.	191
Okla.	27,347	6.	1,746			t	+	-	-	-	-	-	-	6.	1,746
Texas	30,432	-	-	-	-	t	+	1.	307	-	-	-	-	1.	307
Mont.	4,296	5.	2,335	-	-	0	0	0	0	-	-	2.	934	8.	3,736
Idaho	4,960	t	+	t	+	t	+	0	0	-	-	-	-	t	+
Wyo.	2,652	-	-	1.	27	0	0	-	-	-	-	-	-	1.	27
*Colo.	4,433	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*N. M.	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	234	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Utah	1,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Nev.	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	8,060	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	10,360	t	+	1.	107	0.1	11	0.2	21	1.	107	0.3	32	2.8	299
*Calif.	3,080	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	1,146,258	2.9	32,728	1.	11,402	0.4	4,898	1.6	17,705	0.1	1,565	3.6	40,870	10.7	121,708

* Omitted in calculations for U. S. percentage loss.

FIELD CORN

Table 5. Estimated reduction in yield due to smut (Ustilago zeae), foot and root rots and seedling blights (Gibberella, Fusarium, etc.), Diplodia stalk and ear rots (Diplodia spp.), ear rots (Fusarium, Nigrospora, etc., except Diplodia), stalk rots (Fusarium, etc., except Diplodia), bacterial wilt (Aplanobacter stewarti), and other diseases, 1937.

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases															
		Smut		Foot Rots		Diplodia		Ear Rots		Stalk Rots		Bacterial Wilt		All Diseases			
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels		
*Maine	333	-	-	-	-	-	-	-	-	-	-	0	0	-	-		
*N. H.	630	-	-	-	-	-	-	-	-	-	-	0	0	-	-		
*Vt.	2,960	-	-	-	-	-	-	-	-	-	-	0	0	-	-		
*Mass.	1,640	-	-	-	-	-	-	-	-	-	-	0	0	-	-		
*R. I.	400	-	-	-	-	-	-	-	-	-	-	0	0	-	-		
Conn.	1,989	1.	20	-	-	-	-	-	-	-	-	0	0	1.	20		
*N. Y.	23,856	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*N. J.	8,528	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pa.	62,928	4.	3,227	2.	1,614	t	+	10.	8,068	5.	4,034	-	-	22.	17,750		
Ohio	163,228	0.5	837	1.5	2,511	0.2	335	0.2	335	0.1	167	-	-	2.5	4,185		
Ind.	211,770	0.1	215	0.5	1,076	t	+	1.	2,152	t	+	-	-	1.6	3,443		
Ill.	444,197	0.3	1,702	4.5	25,529	0.2	1,135	6.9	39,144	3.	17,019	-	-	21.7	123,105		
Mich.	55,650	4.5	2,639	0.1	59	0.1	59	0.3	176	-	-	-	-	5.1	2,992		
Wis.	76,356	2.	1,706	1.	853	-	-	1.5	1,280	6.	5,119	-	-	10.5	8,958		
Minn.	172,368	7.	13,115	0.5	937	t	+	0.5	937	t	+	-	-	8.	14,989		
Iowa	503,505	8.	50,288	8.	50,288	1.	6,286	2.	12,572	0.5	3,143	0.1	629	19.9	125,092		
*Mo.	115,020	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N. D.	17,252	2.	356	-	-	-	-	0.5	89	0.5	89	-	-	3.	534		
S. D.	44,170	5.	2,427	1.	485	1.	485	2.	970	-	-	-	-	9.	4,367		
*Nebr.	82,992	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Kans.	28,244	1.5	430	-	-	-	-	-	-	-	-	-	-	1.5	430		
*Del.	4,147	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Md.	18,576	1.	199	2.5	497	0.5	99	1.5	298	1.	199	t	+	6.5	1,292		
Va.	37,740	3.	1,279	3.	1,279	1.5	640	1.	426	1.	426	1.5	640	11.5	4,903		
*W. Va.	14,245	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N. C.	45,357	3.	1,722	6.	3,445	2.	1,148	1.	574	2.	1,148	0	0	21.	12,056		

Field Corn (Continued)

	45,357	3.	1,722	6.	3,445	2.	1,148	1.	574	2.	1,148	0	0	21.	12,056									

Field Corn (Continued)

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases																	
		Smut		Foot Rots		Diplodia		Ear Rots		Stalk Rots		Bacterial Wilt		All Diseases					
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels				
*S. C.	24,945	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Ga.	48,334	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Fla.	7,890	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ky.	75,556	1.	779	-	-	1.	779	1.	779	-	-	t	+	3.	2,337				
Tenn.	66,528	1.	739	5.	3,696	2.	1,478	-	-	-	-	-	-	10.	7,391				
*Ala.	46,792	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Miss.	45,378	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Ark.	40,640	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
La.	24,885	t	+	10.	2,998	1.	300	5.	1,499	-	-	-	-	17.	5,097				
Okla.	30,960	3.	962	-	-	-	-	0.5	160	-	-	-	-	3.5	1,122				
Texas	72,048	0.5	363	-	-	-	-	0.1	73	-	-	0.1	73	0.8	582				
*Mont.	1,251	t	+	-	-	-	-	-	-	-	-	0	0	-	-				
*Idaho	1,332	t	+	-	-	-	-	-	-	-	-	0	0	t	+				
Wyo.	2,480	2.	51	-	-	-	-	-	-	-	-	0	0	2.	51				
*Colo.	8,536	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
*N. M.	2,740	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
*Ariz.	495	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
*Utah	594	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
*Nev.	60	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
*Wash.	1,184	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
Oreg.	2,178	t	+	0.2	4	-	-	-	-	-	-	0	0	0.4	8				
*Calif.	2,108	-	-	-	-	-	-	-	-	-	-	0	0	-	-				
U. S.	2,644,995	3.3	83,056	3.8	95,271	0.5	12,744	2.8	69,532	1.3	31,344	0.1	1,342	13.7	340,704				

* Omitted in calculations for U. S. percentage total.

SWEET CORN

Table 6. Estimated reduction in yield due to smut (Ustilago zeae), bacterial wilt (Aplanobacter stewarti), stalk and ear rot (Diplodia zeae), foot rots (various), and other diseases, 1937.

State	Production	Estimated reduction in yield due to diseases											
		Smut		Bacterial Wilt		Diplodia		Foot Rot		All Diseases	
	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons
*Maine	63,700	-	-	0	0	-	-	-	-	-	-
*N.H.	2,900	-	-	0	0	-	-	-	-	-	-
*Vt.	3,100	-	-	0	0	-	-	-	-	-	-
Conn.		1.	+	5.	+	-	-	-	-	6.	+
*N.Y.	40,700	-	-	-	-	-	-	-	-	-	-
Pa.	17,600	6.	1,214	3.	607	-	-	3.	607	13.	2,630
Ohio	41,800	0.8	339	t	+	0.1	42	0.5	212	1.5	635
Ind.	107,900	0.1	108	t	+	t	+	-	-	0.1	108
*Ill.	196,700	-	-	-	-	-	-	-	-	-	-
Mich.	8,400	5.	443	0	0	0	0	-	-	5.2	461
Wis.	41,300	6.	2,784	0	0	2.	928	t	+	11.	5,104
Minn.	180,200	6.	11,752	0	0	1.	1,959	1.	1,959	8.	15,670
Iowa	114,000	10.	14,653	t	+	2.	2,931	-	-	22.2	32,530
N.D.		3.	+	0	0	-	-	-	-	3.5	+
S.D.		10.	+	0	0	-	-	-	-	10.	+
*Nebr.	2,900	-	-	-	-	-	-	-	-	-	-
*Del.	10,000	-	-	-	-	-	-	-	-	-	-
Md.	82,700	2.	1,852	0.7	648	3.	2,778	-	-	10.7	9,908
Tenn.	7,000	1.	76	-	-	-	-	5.	380	8.	608
Texas		0.5	+	t	+	-	-	-	-	0.6	+
Mont.		t	+	0	0	-	-	-	-	t	+
Idaho		t	+	0	0	-	-	-	-	t	+
Wyo.		4.	+	0	0	-	-	-	-	4.	+
Oreg.		-	-	0	0	-	-	t	+	t	+
*Other States°	31,200										
U.S.	952,100	5.	33,221	0.2	1,255	1.3	8,638	0.5	3,158	10.2	67,654

* Omitted in calculations for U. S. percentage loss.

° Includes Colorado, Idaho, Kansas, Kentucky, Missouri, Montana, Oklahoma, Oregon, South Dakota, Texas, Utah, Virginia, Washington, and Wyoming.

SWEET POTATO

Table 7. Estimated reduction in yield due to stem rot (Fusarium spp.), black rot (Sphaeronema

SWEET POTATO

Table 7. Estimated reduction in yield due to stem rot (*Fusarium* spp.), black rot (*Ceratostomella fimbriata*), scurf (*Monilochaetes infuscans*), foot rot (*Plenodomus destruens*), mottle necrosis (*Pythium ultimum*), soil rot or pox (*Actinomyces* sp.), and other diseases, and estimated losses in storage caused by soft rot and ring rot (*Rhizopus* spp.), surface rot (*Fusarium oxysporum*), and other organisms, 1937.

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases: Stem Rot %	Stem Rot 1,000 Bushels	Black Rot %	Black Rot 1,000 Bushels	Scurf %	Scurf 1,000 Bushels	Foot Rot %	Foot Rot 1,000 Bushels	Mottle Necrosis %	Mottle Necrosis 1,000 Bushels	Soil Rot %	Soil Rot 1,000 Bushels	All Diseases %	All Diseases 1,000 Bushels	Soft Rot %	Soft Rot 1,000 Bushels	Surface Rot %	Surface Rot 1,000 Bushels	All Storage Rots %	All Storage Rots 1,000 Bushels
*N.J.	2,414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.		t	+	t	+	-	-	1.	+	-	-	-	-	1.	+	-	-	-	-	-	-
*Ind.	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ill.	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Iowa	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Mo.	1,190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	240	6.	16	2.	5	-	-	-	-	-	-	1.	3	9.	24	2.	5	-	-	2.	5
*Del.	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	1,000	3.	32	2.	21	t	+	t	+	t	+	1.5	16	6.5	69	-	-	-	-	10.	100
Va.	5,070	7.	355	2.	101	2.	101	t	+	-	-	-	-	11.	557	5.	254	3.	152	11.	558
N.C.	8,160	15.	1,530	t	+	2.	204	-	-	1.	102	t	+	20.	2,040	10.	816	10.	816	20.	1,632
*S.C.	5,130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ga.	8,550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.	1,365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
° Ky.	2,160	t	+	t	+	5.	114	-	-	-	-	-	-	5.	114	-	-	-	-	-	-
° Tenn.	5,610	30.	3,060	15.	1,530	t	+	-	-	-	-	-	-	45.	4,590	-	-	-	-	-	-
*Ala.	8,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	7,544	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ark.	3,515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	6,570	-	-	3.	210	-	-	-	-	-	-	1.	70	6.	420	2.5	164	2.	131	5.	328
Okla.	1,050	4.	44	1.	11	-	-	-	-	-	-	-	-	5.	55	1.	11	3.	32	4.	43
Texas	3,744	-	-	0.1	4	-	-	-	-	-	-	0.1	4	0.2	8	-	-	-	-	-	-
*Calif.	1,221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.	75,393	12.1	5,037	4.5	1,882	1.	419	-	-	0.2	102	0.2	93	18.8	7,877	4.4	1,250	4.	1,131	9.4	2,666

* Omitted in calculations for U. S. percentage loss for reduction in yield. ° For storage rots.

Table 8. Estimated reduction in yield due to mosaic, leaf roll, and other virus diseases, late blight (Phytophthora infestans), rhizoctonia (Rhizoctonia solani), blackleg (Bacillus phytophthorus).

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases													
		Mosaic		Leaf Roll		Other Virus		Late Blight		Rhizoctonia		Blackleg			
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels		
Maine	48,503	2.	1,019	2.	1,019	0.1	51	2.	1,019	3.	1,528	1.5	7		
N.H.	1,479	5.	85	2.	34	-	-	5.	85	-	-	1.	1		
Vt.	2,194	2.	58	5.	145	-	-	1.	29	-	-	-	-		
*Mass.	2,254	-	-	-	-	-	-	-	-	-	-	-	-		
*R.I.	838	-	-	-	-	-	-	-	-	-	-	-	-		
*Conn.	2,890	-	-	-	-	-	-	-	-	-	-	-	-		
*N.Y.	28,375	-	-	-	-	-	-	-	-	-	-	-	-		
*N.J.	10,080	-	-	-	-	-	-	-	-	-	-	-	-		
Pa.	25,215	1.	337	3.	1,010	t	+	12.	4,040	2.	673	0.1	3		
Ohio	10,030	t	+	t	+	t	+	0.2	21	t	+	t	+		
Ind.	5,400	0.1	6	0.1	6	0.8	46	-	-	0.1	6	-	-		
*Ill.	3,120	-	-	-	-	-	-	-	-	-	-	-	-		
Mich.	28,634	t	+	t	+	0.3	126	0	0	1.	420	2.5	1,0		
Wis.	18,525	t	+	0	0	10.	2,205	0	0	t	+	t	+		
Minn.	24,411	5.	1,649					0	0	2.	660	1.	3		
Iowa	5,040	8.	602	7.	527	2.	150	0	0	3.	226	1.	7		
*Mo.	4,950	-	-	-	-	-	-	0	0	-	-	-	-		
N.D.	11,662	1.	132	1.	132	1.	132	0	0	1.	132	1.5	1		
*S.D.	1,534	-	-	-	-	-	-	0	0	-	-	-	-		
*Nebr.	6,035	-	-	-	-	-	-	0	0	-	-	-	-		
Kans.	2,233	-	-	-	-	-	-	0	0	5.	121	-	-		
*Del.	475	-	-	-	-	-	-	-	-	-	-	-	-		
Md.	3,480	1.5	66	1.5	66	t	+	8.	355	2.	89	t	+		
Va.	10,920	2.	240	2.	240	0.5	60	2.	240	1.	120	1.	12		
W.Va.	3,264	5.	326	5.	326	-	-	10.	653	3.	196	2.	1		
N.C.	9,894	1.	108	2.	215	-	-	1.	108	2.	215	1.	1		
*S.C.	3,120	-	-	-	-	-	-	-	-	-	-	-	-		
*Ga.	1,188	-	-	-	-	-	-	-	-	-	-	-	-		
Fla.	4,114	1.	51					8.	406	1.	51	2.	1		
*Ky.	4,371	-	-	-	-	-	-	-	-	-	-	-	-		
Tenn.	3,081	2.	69	t	+	-	-	t	+	1.	35	t	+		
*Ala.	3,780	-	-	-	-	-	-	-	-	-	-	-	-		
*Miss.	1,512	-	-	-	-	-	-	-	-	-	-	-	-		
*Ark.	3,053	-	-	-	-	-	-	-	-	-	-	-	-		
La.	2,728	3.	87	-	-	1.	29	-	-	-	-	-	-		
Okla.	2,516	3.	81	-	-	1.	27	0	0	1.	27	t	+		
Texas	3,456	0.1	4	0.1	4	1.	37	5.	185	-	-	0.1			
Mont.	1,800	4.	80	0	0	1.	20	0	0	1.	20	t	+		
Idaho	29,520	3.	932	t	+	t	+	0	0	1.	311	1.	3		
Wyo.	2,592	2.	61	-	-	1.	31	0	0	2.	61	2.			
*Colo.	15,680	-	-	-	-	-	-	0	0	-	-	-	-		
*N.M.	432	-	-	-	-	-	-	0	0	-	-	-	-		
*Ariz.	160	-	-	-	-	-	-	0	0	-	-	-	-		
*Utah	2,128	-	-	-	-	-	-	0	0	-	-	-	-		
*Nev.	345	-	-	-	-	-	-	0	0	-	-	-	-		
*Wash.	9,400	-	-	-	-	-	-	-	-	-	-	-	-		
*Oreg.	7,840	-	-	-	-	-	-	-	-	-	-	-	-		
*Calif.	16,900	-	-	-	-	-	-	-	-	-	-	-	-		
U.S.	391,159	1.9	5,993	1.2	3,724	0.9	2,914	2.2	7,141	1.5	4,891	1.	3,3		

* Omitted in calculations for U. S. percentage loss.

Fusarium wilt (*Fusarium* spp.), "purple-top" wilt (undet.), tipburn and hopperburn (undet.), seed-piece decay (various causes), scab (*Actinomyces scabies*), and other diseases, 1937.

State	Estimated reduction in yield due to diseases																	
	Fusarium Wilt		"Purple-top" Wilt		Tipburn & Hopperburn		Early Blight		Seed-piece Decay		Scab		All Diseases	
	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
Maine	0	0	-	-	-	-	1.	509	3.	1,528	-	-	14.8	7,539
N.H.	-	-	-	-	-	-	t	+	-	-	-	-	13.	221
Vt.	-	-	-	-	10.	291	1.5	44	5.	145	-	-	24.5	712
Mass.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	1.	337	-	-	1.	337	1.	337	-	-	4.	1,347	25.1	8,452
Ohio	t	+	-	-	1.	104	t	+	2.	207	-	-	3.2	332
Ind.	-	-	-	-	3.	173	-	-	-	-	2.	115	6.1	352
Ill.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mich.	1.	420	-	-	10.	4,199	5.	2,099	-	-	12.	5,038	31.8	13,352
Wis.	1.	220	-	-	5.	1,103	t	+	-	-	-	-	16.	3,529
Minn.	1.	330	10.	3,299	3.	990	t	+	t	+	2.	660	26.	8,578
Iowa	t	+	-	-	7.	527	t	+	0	0	5.	376	33.	2,483
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.D.	0.5	66	5.	659	0.5	66	t	+	-	-	t	+	11.5	1,517
S.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	2.	48	0.5	12	7.5	181
Del.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	2.	89	-	-	1.	44	1.	44	t	+	4.	177	21.5	952
Va.	-	-	-	-	-	-	t	+	0.5	60	-	-	9.	1,080
W.Va.	t	+	-	-	15.	979	t	+	-	-	-	-	50.	3,264
N.C.	1.	108	-	-	3.	323	1.	108	2.	215	-	-	18.	1,938
S.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	t	+	t	+	3.	152	19.	965
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	t	+	-	-	5.	173	3.	104	-	-	-	-	11.	381
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	-	-	-	0.5	15	0.5	15	-	-	-	-	6.	175
Okla.	1.	27	-	-	t	+	-	-	-	-	1.	27	7.	189
Texas	-	-	-	-	-	-	0.5	19	-	-	-	-	6.8	253
Mont.	2.	40	-	-	-	-	t	+	2.	40	-	-	10.	200
Idaho	t	+	-	-	0	0	t	+	t	+	t	+	5.	1,554
Wyo.	5.	153	-	-	-	-	t	+	2.	61	1.5	46	15.5	474
Colo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.	0.6	1,791	1.2	3,958	2.9	9,324	1.	3,279	0.7	2,304	2.5	7,950	18.3	58,673

TOMATOES

Table 9. Tomatoes for manufacture; estimated reduction in yield due to septoria blight (S. lycopersici), fusarium wilt (F. bulbigenum lycopersici), bacterial wilt (Bacterium solanacearum), early blight (Alternaria solani), fruit rots (various organisms)

State	Production: Short Tons°	Estimated reduction in yield due to diseases: Septoria %	Septoria Short Tons	Fusarium Wilt %	Fusarium Wilt Short Tons	Bacterial Wilt %	Bacterial Wilt Short Tons	Early Blight %	Early Blight Short Tons	Fruit Rots %	Fruit Rots Short Tons
N.Y.	137,600	-	-	-	-	0	0	-	-	t	+
*N.J.	137,800	-	-	-	-	0	0	-	-	-	-
Pa.	58,000	2.	2,148	t	+	0	0	35.	37,592	5.	5,370
Ohio	64,600	5.	3,519	t	+	-	-	3.	2,111	0.2	141
Ind.	346,900	1.	3,898	2.	7,796	t	+	6.	23,387	1.	3,898
Ill.	58,800	2.	1,400	2.	1,400	-	-	4.	2,800	-	-
Mich.	20,200	20.	7,088	t	+	0	0	15.	5,316	5.	1,772
Iowa	30,100	5.	1,771	-	-	0	0	-	-	-	-
*Mo.	31,300	-	-	-	-	-	-	-	-	-	-
*Del.	40,300	-	-	-	-	-	-	-	-	-	-
Md.	165,800	t	+	1.5	3,148	t	+	8.	16,790	10.	20,987
Va.	62,500	1.	762	10.	7,622	2.	1,524	1.	762	1.	762
Ky.	12,600	5.	788	t	+	-	-	-	-	15.	2,363
Tenn.	25,900	10.	3,500	5.	1,750	-	-	5.	1,750	1.	350
*Ark.	31,200	-	-	-	-	-	-	-	-	-	-
*Colo.	21,400	0	0	-	-	-	-	-	-	-	-
*Utah	53,100	0	0	-	-	-	-	-	-	-	-
*Calif.	484,500	0	0	-	-	-	-	-	-	-	-
*Other States:	76,000										
U.S.	1,858,600	2.1	24,874	1.8	21,716	0.1	1,524	7.6	90,508	3.	35,643

° Short tons, 2,000 pounds.
* Omitted in calculations for U. S. percentage loss.

TOMATOES (Continued)
(For Manufacture)

Blossom-end rot (non-parasitic), bacterial canker (Aplanobacter michiganonse), mosaic, and other virus diseases, and other diseases, 1937.

State	Estimated reduction in yield due to diseases											
	Blossom-end Rot		Bacterial Canker		Mosaic		Other Virus		All Diseases	
	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons
N. Y.	0.8	1,110	t	+	-	-	-	-	0.8	1,110
N. J.	-	-	-	-	-	-	-	-	-	-
Pa.	1.	1,074	t	+	1.	1,074	t	+	46.	49,406
Ohio	-	-	t	+	t	+	-	-	8.2	5,771
Ind.	-	-	-	-	-	-	-	-	11.	42,877
Ill.	-	-	0.5	350	5.	3,500	0.5	350	16.	11,200
Mich.	t	+	t	+	1.	354	t	+	43.	15,239
Iowa	8.	2,833	-	-	2.	708	-	-	15.	5,312
Mo.	-	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-	-
Md.	0.5	1,049	t	+	t	+	-	-	21.	44,073
Va.	-	-	t	+	1.	762	-	-	18.	13,718
Ky.	-	-	-	-	t	+	-	-	20.	3,151
Tenn.	-	-	-	-	t	+	-	-	26.	9,100
Ark.	-	-	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-	-	-
Utah	-	-	t	+	-	-	t	+	-	-
Calif.	-	-	-	-	-	-	-	-	-	-
Other States										
U. S.	0.5	6,066	t	350	0.5	6,398	t	350	16.7	200,957

TOMATOES

Table 10. Tomatoes for market; estimated reduction in yield due to septoria blight (S. lycopersici), fusarium wilt (F. bulbigenum lycopersici), bacterial wilt (Bacterium solanacearum), early blight (Alternaria solani), fruit rots (various organisms)

State	Production 1,000 °Bushels	Estimated reduction in yield due to diseases: Septoria %	Septoria 1,000 Bushels	Fusarium Wilt %	Fusarium Wilt 1,000 Bushels	Bacterial Wilt %	Bacterial Wilt 1,000 Bushels	Early Blight %	Early Blight 1,000 Bushels	Fruit Rots %	Fruit Rots 1,000 Bushels
Conn.		5.	+	-	-	0	0	15.	+	-	-
N.Y.	1,872	-	-	-	-	-	-	-	-	0.1	2
*N.J.	2,100	-	-	-	-	-	-	-	-	-	-
Pa.	380	2.	12	t	+	-	-	25.	149	5.	30
Ohio	373	5.	20	t	+	-	-	3.	12	0.2	1
Ind.	660	1.	7	2.	15	t	+	6.	44	1.	7
Ill.	131	2.	3	2.	3	-	-	4.	6	-	-
Mich.	476	20.	167	t	+	0	0	15.	125	5.	42
Wis.		t	+	0	0	0	0	5.	+	5.	+
Minn.		t	+	t	+	-	-	t	+	-	-
Iowa	81	5.	5	-	-	0	0	-	-	-	-
*Mo.	550	-	-	-	-	-	-	-	-	-	-
N.D.		-	-	-	-	-	-	t	+	1.	+
Kans.		-	-	1.	+	-	-	-	-	-	-
*Del.	24	-	-	-	-	-	-	-	-	-	-
Md.	832	t	+	1.5	14	t	+	6.	58	5.	48
Va.	608	1.	7	10.	74	2.	15	1.	7	1.	7
N.C.	72	3.	3	3.	3	6.	6	1.	1	3.	3
*S.C.	488	-	-	-	-	-	-	-	-	-	-
*Ga.	180	-	-	-	-	-	-	-	-	-	-
*Fla.	2,746	-	-	t	+	-	-	-	-	-	-
Ky.	276	5.	17	t	+	-	-	-	-	15.	52
Tenn.	770	10.	104	5.	52	-	-	5.	52	1.	10
*Miss.	912	-	-	-	-	-	-	-	-	-	-
*Ark.	240	-	-	-	-	-	-	-	-	-	-
La.	228	-	-	2.	5	-	-	2.	5	-	-
Texas	2,844	t	+	5.	224	-	-	2.	90	9.	403
Mont.		-	-	t	+	-	-	-	-	-	-
Idaho		0	0	0	0	0	0	-	-	t	+
*Colo.	636	-	-	-	-	-	-	-	-	-	-
*Utah	80	-	-	-	-	-	-	-	-	-	-
*Wash.	216	-	-	-	-	-	-	-	-	-	-
Oreg.	294	-	-	-	-	-	-	-	-	-	-
*Calif.	3,281	-	-	-	-	-	-	-	-	-	-
U.S.	21,350	2.7	345	3.	390	0.2	21	4.2	549	4.7	605

° Bushels of 53 pounds.

* Omitted in calculations for U. S. percentage loss.

TOMATOES (Continued)
(For Market)

Blossom-end rot (non-parasitic), bacterial canker (Aplanobacter michiganense), mosaic, and other virus diseases, and other diseases, 1937.

State	Estimated reduction in yield due to diseases: Blossom-end Rot		Bacterial Canker		Mosaic		Other Virus		All Diseases	
	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
Conn.	1.	+	-	-	5.	+	-	-	26.	+
N. Y.	0.8	15	0.1	2	-	-	-	-	1.2	23
N. J.	-	-	-	-	-	-	-	-	-	-
Pa.	1.	6	t	+	1.	6	-	-	36.	215
Ohio	-	-	t	+	t	+	-	-	8.2	33
Ind.	-	-	-	-	-	-	-	-	11.	80
Ill.	-	-	0.5	1	5.	8	0.5	1	16.	25
Mich.	t	+	t	+	1.	8	t	+	43.	359
Wis.	1.	+	1.	+	t	+	t	+	13.	+
Minn.	4.	+	-	-	2.	+	-	-	6.	+
Iowa	8.	8	-	-	2.	2	-	-	15.	15
Mo.	-	-	-	-	-	-	-	-	-	-
N. D.	1.	+	-	-	1.	+	-	-	3.	+
Kans.	-	-	-	-	-	-	-	-	1.	+
Del.	-	-	-	-	-	-	-	-	-	-
Md.	0.5	5	t	+	t	+	-	-	13.5	130
Va.	-	-	-	-	1.	7	-	-	18.	132
N. C.	3.	3	t	+	2.	2	-	-	28.	28
S. C.	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	t	+	-	-	20.	69
Tenn.	-	-	-	-	t	+	-	-	26.	270
Miss.	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-
La.	3.	8	-	-	5.	13	-	-	14.	36
Texas	-	-	t	+	1.	45	5.	224	36.5	1,635
Mont.	t	+	-	-	t	+	-	-	1.	+
Idaho	t	+	0	0	-	-	10.	+	10.	+
Colo.	-	-	-	-	-	-	-	-	-	-
Utah	-	-	t	+	-	-	t	+	-	-
Wash.	-	-	-	-	-	-	-	-	-	-
Oreg.	-	-	-	-	-	-	2.5	8	2.5	8
Calif.	-	-	-	-	-	-	-	-	-	-
U. S.	0.4	45	t	3	0.7	91	1.8	233	23.7	3,058

SNAP BEANS

Table 11. Snap beans for market and manufacture; estimated reduction in yield due to anthracnose (Colletotrichum lindemuthianum), bacterial blights (common, Bacterium phaseoli; halo, B. medicaginis phaseolicola; wilt, B. flaccumfaciens), mosaic (virus)

State	Production 1,000 °Bushels	Estimated reduction in yield due to diseases									
		Anthracnose		Bacterial Blight		Halo Blight		Bacterial Wilt		Mosaic	
		%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Maine	253	-	-	-	-	-	-	-	-	-	-
*N.Y.	1,445	0	0	-	-	-	-	-	-	-	-
*N.J.	1,391	-	-	-	-	-	-	-	-	-	-
Pa.	730	1.	8	0.4	3	-	-	-	-	4.	32
Ohio		0.5	+	0.2	+	0.1	+	-	-	1.	+
*Ind.	180	-	-	-	-	-	-	-	-	-	-
Ill.	80	2.	2	2.	2	-	-	-	-	1.	1
*Mich.	618	0	0	-	-	-	-	-	-	-	-
*Wis.	553	t	+	t	+	-	-	-	-	-	-
Minn.		-	-	2.	+					3.	+
Iowa		3.	+	6.	+					t	+
N.D.		0	0	0	0	-	-	-	-	2.5	+
*Del.	123	-	-	-	-	-	-	-	-	-	-
Md.	1,394	t	+	2.	29	-	-	-	-	0.5	7
Va.	631	0	0	1.	8	2.	15	0	0	t	+
N.C.	451	2.	11	0	0	5.	27	0	0	2.	11
*S.C.	262	-	-	-	-	-	-	-	-	-	-
*Ga.	180	-	-	-	-	-	-	-	-	-	-
Fla.	4,688	-	-	-	-	-	-	-	-	-	-
Ky.		-	-	5.	+	-	-	-	-	-	-
Tenn.	331	t	+	-	-	-	-	-	-	-	-
*Ala.	50	-	-	-	-	-	-	-	-	-	-
*Miss.	393	t	+	-	-	-	-	-	-	-	-
*Ark.	318	-	-	-	-	-	-	-	-	-	-
La.	794	-	-	2.	19	10.	93	-	-	-	-
Okla.		t	+	2.	+			-	-	-	-
Texas	480	t	+	-	-	-	-	-	-	t	+
Idaho		0	0	t	+	t	+	-	-	5.	+
Wyo.		0	0	0.5	+	20.	+	1.5	+	4.	+
Colo.	592	0	0	15.	122			-	-	-	-
*Utah	220	0	0	-	-	-	-	-	-	-	-
*Wash.	300	0	0	-	-	-	-	-	-	-	-
*Oreg.	733	0	0	-	-	-	-	-	-	-	-
*Calif.	1,979	0	0	-	-	-	-	-	-	-	-
*Other States	560										
U.S.	19,729	0.2	21	1.6	183	1.2	135	-	-	0.5	51

° Bushels of 30 pounds. Production of beans for manufacture given in short tons reduced to thousands of bushels.

* Omitted in calculations for U. S. percentage loss.

SNAP BEANS (Continued).

Curly-top (virus), dry root rot (Fusarium martii phaseoli), stem canker (Rhizoctonia solani), rust (Uromyces phaseoli typica), powdery mildew (Erysiphe polygoni), and other diseases, 1937.

State	Estimated reduction in yield due to diseases																	
	Curly-top		Dry Root Rot		Stem Canker		Rust		Powdery Mildew		All Diseases	
	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
Maine	0	0	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	0	0	-	-	-	-	t	+	-	-	-	-	-	-
N.J.	0	0	-	-	-	-	t	+	-	-	-	-	-	-
Pa.	0	0	4.	32	-	-	t	+	t	+	9.4	75
Ohio	0	0	-	-	-	-	t	+	-	-	1.8	+
Ind.	0	0	-	-	-	-	-	-	-	-	-	-
Ill.	0	0	-	-	-	-	-	-	-	-	5.	5
Mich.	0	0	-	-	t	+	0	0	-	-	-	-
Wis.	0	0	-	-	-	-	0	0	-	-	-	-
Minn.	0	0	-	-	5.	+	-	-	-	-	10.	+
Iowa	0	0	t	+	-	-	-	-	-	-	9.	+
N.D.	0	0	-	-	-	-	-	-	-	-	2.5	+
Del.	0	0	-	-	-	-	-	-	-	-	-	-
Md.	0	0	2.	29	t	+	t	+	-	-	4.5	65
Va.	0	0	2.	15	2.	15	7.	54	4.	31	18.5	142
N.C.	0	0	0	0	2.	11	5.	27	1.	5	17.	92
S.C.	0	0	-	-	-	-	-	-	-	-	-	-
Ga.	0	0	-	-	-	-	-	-	-	-	-	-
Fla.	0	0	-	-	-	-	8.	408	-	-	8.	408
Ky.	0	0	5.	+	-	-	t	+	-	-	10.	+
Tenn.	0	0	-	-	t	+	t	+	-	-	t	+
Ala.	0	0	-	-	-	-	-	-	-	-	-	-
Miss.	0	0	-	-	-	-	-	-	-	-	-	-
Ark.	0	0	-	-	-	-	-	-	-	-	-	-
La.	0	0	-	-	1.	9	-	-	-	-	14.5	135
Okla.	-	-	-	-	-	-	-	-	-	-	2.	+
Texas	0.5	2	-	-	-	-	t	+	1.	5	2.5	12
Idaho	10.	+	t	+	t	+	0	0	0	0	15.	+
Wyo.	-	-	-	-	-	-	-	-	-	-	26.	+
Colo.	-	-	10.	81			2.	16	-	-	27.	219
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	t	+	-	-	-	-
Oreg.	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	t	+	-	-	-	-
Other States:												
U.S.	t	2	1.4	157	0.3	35	4.5	505	0.4	41	10.3	1,153

DRY BEANS

Table 12. Estimated reduction in yield due to anthracnose (Colletotrichum lindemuthianum), bacterial blights (common, Bacterium phaseoli; halo, B. medicaginis phaseolicola; wilt, B. flaccumfaciens), mosaic (virus)

State	Production a/ 1,000 Bags°	Estimated reduction in yield due to diseases: Anthracnose %	Anthracnose 1,000 Bags	Bacterial Blight %	Bacterial Blight 1,000 Bags	Halo Blight %	Halo Blight 1,000 Bags	Bacterial Wilt %	Bacterial Wilt 1,000 Bags	Mosaic %	Mosaic 1,000 Bags
*Maine	80	-	-	-	-	-	-	-	-	-	-
*Vt.	20	-	-	-	-	-	-	-	-	-	-
*N.Y.	1,264	-	-	-	-	-	-	-	-	-	-
Mich.	4,559	0	0	2.	93	0.1	5	0.1	5	0.1	5
Wis.	15	0	0	1.	+	1.	+	0	0	5.	1
Minn.	10	t	+	2.	+					3.	+
*Nebr.	220	-	-	-	-	-	-	-	-	-	-
Mont.	276	0	0	2.	6	5.	16	t	+	3.	9
Idaho	1,932	0	0	t	+	t	+	-	-	2.	42
Wyo.	649	0	0	0.5	4	10.	73	-	-	-	-
Colo.	781	0	0	20.	223			-	-	-	-
*N.M.	612	0	0	-	-	-	-	-	-	-	-
*Ariz.	38	0	0	-	-	-	-	-	-	-	-
*Oreg.	14	0	0	-	-	-	-	-	-	-	-
*Calif.	5,369	0	0	-	-	-	-	-	-	-	-
U.S.	15,839	-	-	3.7	326	1.1	94	t	5	0.6	57

a/ Includes beans grown for seed.
° Bags of 100 pounds.
* Omitted in calculations for U. S. percentage loss.

DRY BEANS (Continued)

Curly-top (virus), dry root rot (Fusarium martii phaseoli), stem canker (Rhizoctonia solani), rust (Uromyces phaseoli typica), powdery mildew (Erysiphe polygoni), and other diseases, 1937.

State	Estimated reduction in yield due to diseases															
	Curly-top		Dry Root Rot		Stem Canker		Rust		Powdery Mildew		All Diseases	
	%	1,000 Bags	%	1,000 Bags	%	1,000 Bags	%	1,000 Bags	%	1,000 Bags	%	1,000 Bags
Maine	0	0	-	-	-	-	-	-	-	-	-	-
Vt.	0	0	-	-	-	-	-	-	-	-	-	-
N.Y.	0	0	-	-	-	-	-	-	-	-	-	-
Mich.	0	0	t	+	t	+	-	-	-	-	2.3	108
Wis.	0	0	1.	+	1.	+	0	0	0	0	9.	1
Minn.	0	0	-	-	5.	1	-	-	t	+	10.	1
Nebr.	0	0	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	1.	3	-	-	-	-	-	-	11.	34
Idaho	5.	104	t	+	t	+	0	0	0	0	7.	146
Wyo.	-	-	-	-	-	-	-	-	-	-	10.5	77
Colo.	-	-	10.	112			-	-	-	-	30.	335
N.M.	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-	-	-	-	-
U.S.	1.2	104	1.3	115	t	1	-	-	-	-	7.9	702

Table 13. Green peas for manufacture; estimated reduction in yield due to bacterial blight (Bacterium pisi), wilt (Fusarium orthoceras pisi), "near wilt" (Fusarium spp.), ascochyta blights (A. pisi, Mycosphaerella pinodes, A. pinodella), root rots (Aphanomyces euteiches, Fusarium spp., and others), stem canker (Rhizoctonia solani), virus diseases, and other diseases, 1937.

State	Production	Estimated reduction in yield due to diseases																	
		Bacterial Blight		Wilt		"Near Wilt"		Ascochyta Blights		Root Rots		Stem Canker		Virus Diseases		All Diseases	
	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons
*Maine	3,310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	21,490	0.1	29	0.1	29	-	-	0.3	88	25.	7,310	-	-	-	-	26.5	7,748
Pa.	6,400	-	-	1.	73	-	-	t	+	11.	800	-	-	t	+	12.	873
Ohio	4,880	-	-	-	-	-	-	0.2	10	0.1	5	0.2	10	-	-	0.5	25
*Ind.	7,950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ill.	12,530	-	-	-	-	-	-	-	-	-	-	-	-	5.	659	5.	659
Mich.	11,300	0.1	11	0.1	11	-	-	0.1	11	1.	115	-	-	-	-	1.3	148
Wis.	71,810	0	0	1.	764	1.	764	0	0	2.	1,528	0	0	2.	1,528	6.	4,584
*Minn.	18,340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Del.	1,720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	18,220	t	+	t	+	t	+	0.3	58	5.	962	-	-	t	+	5.3	1,020
*Va.	3,540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas		-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.	+
Mont.	3,030	0	0	-	-	t	+	1.	32	3.5	111	t	+	t	+	4.5	143
Idaho		0.1	+	0.1	+	0.1	+	-	-	0.2	+	-	-	0.1	+	0.6	+
Wyo.		t	+	-	-	-	-	-	-	-	-	-	-	t	+	t	+
*Colo.	3,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Utah	18,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	28,230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.	15,480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Other States	15,430																
U.S.	265,190	t	40	0.5	877	0.5	764	0.1	199	6.6	10,831	t	10	1.3	2,187	9.2	15,200

* Omitted in calculations for U. S. percentage loss.
• Includes California, Idaho, Iowa, Kansas, Nebraska, New Jersey, Oklahoma, Tennessee, Texas, and Wyoming.

* Omitted in calculations for U. S. percentage loss.
• Includes California, Idaho, Iowa, Kansas, Nebraska, New Jersey, Oklahoma, Tennessee, Texas, and Wyoming.

GREEN PEAS

Table 14. Green peas for market; estimated reduction in yield due to bacterial blight (Bacterium pisi), wilt (Fusarium orthoceras pisi), "near wilt" (Fusarium spp.), ascochyta blights (A. pisi, Mycosphaerella pinodes, A. pinodella), root rots (Aphanomyces euteiches, Fusarium spp., and others), stem canker (Rhizoctonia solani), virus diseases, and other diseases, 1937.

State	Production 1,000 •Bushels	Estimated reduction in yield due to diseases: Bacterial Blight %	Bacterial Blight 1,000 Bushels	Wilt %	Wilt 1,000 Bushels	"Near Wilt" %	"Near Wilt" 1,000 Bushels	Ascochyta Blights %	Ascochyta Blights 1,000 Bushels	Root Rots %	Root Rots 1,000 Bushels	Stem Canker %	Stem Canker 1,000 Bushels	Virus Diseases %	Virus Diseases 1,000 Bushels	All Diseases %	All Diseases 1,000 Bushels
N.Y.	331	0.1	+	0.1	+	-	-	0.3	1	25.	113	-	-	-	-	26.5	119
*N.J.	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	15	0.2	+	t	+	t	+	2.	+	5.	1	-	-	t	+	7.2	1
*Va.	231	-	-	-	-	-	-	-	-	-	-	-	-	t	+	-	-
N.C.	224	2.	5	0	0	0	0	t	+	3.	7	1.	2	t	+	6.	14
S.C.	194	-	-	-	-	-	-	-	-	2.	4	t	+	t	+	2.	4
*Fla.	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*La.	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.	9
Mont.		0	0	-	-	t	+	1.	+	3.5	+	t	+	t	+	4.5	+
Idaho	484	0.1	+	0.1	+	0.1	+	-	-	0.2	1	-	-	0.1	+	0.6	1
*Colo.	969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.	4,724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S.	9,395	0.3	5	-	-	-	-	0.1	1	6.8	126	0.1	2	-	-	8.1	148

• Bushels of 30 pounds.
* Omitted in calculations for U. S. percentage loss.

COTTON

Table 15. Estimated reduction in yield due to anthracnose (Glomerella gossypii), angular leaf spot (Bacterium malvacearum), fusarium wilt (F. vasinfectum), verticillium wilt (Verticillium sp.), root knot (Heterodera marioni), Texas root rot (Phymatotrichum omnivorum), seedling blight and damping-off (various organisms), boll rots (various), deficiency diseases, and other diseases, 1937.

State	Production 1,000 Bales°	Estimated reduction in yield due to diseases																					
		Anthracnose		Angular Leaf Spot		Fusarium Wilt		Verticillium Wilt		Root Knot		Texas Root Rot		Seedling Blight and Damping-off		Boll Rots		Deficiency Diseases		All Diseases	
		%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales	%	1,000 Bales
*Mo.	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Va.	41	2.5	1	4.5	2	1.5	1	-	-	t	+	0	0	2.	1	1.5	1	1.5	1	13.5	7
N.C.	775	t	+	3.	38	6.	75	-	-	2.	25	0	0	15.	188	t	+	12.	150	38.	476
*S.C.	1,025	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*Ga.	1,490	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*Fla.	40	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
Tenn.	640	1.	7	0.5	4	3.	22	-	-	t	+	0	0	1.	7	-	-	5.	36	11.	85
*Ala.	1,610	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*Miss.	2,625	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*Ark.	1,830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	1,000	1.	12	t	+	2.	23	-	-	-	-	0	0	1.	12	t	+	4.	47	8.	94
Okla.	825	-	-	3.	35	3.	35	-	-	0.5	6	3.	35	10.	117	-	-	10.	117	29.5	345
Texas	5,230	t	+	3.	218	3.	218	t	+	1.	73	5.	363	10.	726	3.	218	1.	73	28.	2,034
*N.M.	157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.	710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*All Others	18																				
U.S.	18,746	0.2	20	2.6	297	3.2	374	-	-	0.9	104	3.4	398	9.	1,051	1.9	219	3.6	424	26.1	3,036

° Bales of 500 pounds.
* Omitted in calculations for U. S. percentage loss.

Table 16. Estimated reduction in yield due to downy mildew (Peronospora tabacina), black root rot (Thielaviopsis basicola), mosaic (virus), wildfire (Bacterium tabacum), angular leaf spot (B. angulatum), deficiency diseases, and other diseases, 1937.

State	Production	Estimated reduction in yield due to diseases															
		Downy Mildew		Black Root Rot		Mosaic		Wildfire		Angular Leaf Spot		Deficiency Diseases		All Diseases	
	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds	%	1,000 Pounds
*Mass.	8,399	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Conn.	23,586	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N. Y.	1,215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	28,520	t	+	t	+	2.	992	40.	19,840	0	0	0.5	248	42.5	21,080
Ohio	26,238	-	-	-	-	0.1	27	1.	265	t	+	t	+	1.1	292
*Ind.	8,363	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wis.	23,888	0	0	2.	498	1.	249	0	0	0	0	1.	249	4.	996
*Minn.	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Mo.	5,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	25,200	15.	6,462	1.	431	7.	3,015	7.	3,015	t	+	6.5	2,800	41.5	17,877
Va.	104,421	20.	30,267	t	+	2.	3,027	-	-	t	+	2.	3,027	31.	46,914
*W. Va.	2,590	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. C.	593,745	5.	40,667	t	+	2.	16,267	0	0	1.	8,133	5.	40,667	27.	219,603
*S. C.	106,275	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ga.	77,878	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.	14,014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	343,865	t	+	2.	7,815	2.	7,815	5.	19,538			2.	7,815	12.	46,891
Tenn.	111,280	3.	4,106	10.	13,688	2.	2,738	t	+	0.5	684	1.	1,369	18.7	25,596
U. S.	1,505,762	5.	81,502	1.4	22,432	2.1	34,130	2.6	42,658	0.5	8,817	3.4	56,175	23.2	379,249

* Omitted in calculations for U. S. percentage loss.

Table 17. Estimated reduction in yield due to fire blight (Bacillus amylovorus), scab (Venturia pyrina), leaf blight (Fabraea maculata), black-end (non-parasitic), and other diseases, 1937.

State	Production	Estimated reduction in yield due to diseases													
		Fire Blight		Scab		Leaf Blight		Black End		All Diseases					
	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Maine	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N.H.	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Vt.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Mass.	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*R.I.	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	48	1.	+	-	-	-	-	-	-	-	-	1.	+		
N.Y.	1,305	0.1	1	0.1	1	0.1	1	-	-	-	-	0.5	6		
*N.J.	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	817	15.	146	1.	10	t	+	0	0	16.	156				
Ohio	992	0.1	1	t	+	t	+	0	0	0.1	1				
Ind.	630	10.	70	-	-	-	-	0	0	10.	70				
Ill.	999	10.	111	-	-	t	+	0	0	10.	111				
Mich.	1,360	0.1	1	0.1	1	0.1	1	0	0	0.3	3				
Wis.		1.	+	2.	+	t	+	0	0	3.	+				
Iowa	144	1.	1	0	0	-	-	0	0	1.	1				
*Mo.	684	-	-	-	-	t	+	-	-	-	-				
*Nebr.	43	-	-	-	-	-	-	-	-	-	-				
*Kans.	220	-	-	-	-	-	-	-	-	-	-				
*Del.	10	-	-	-	-	-	-	-	-	-	-				
Md.	73	10.	8	1.5	1	1.5	1	0	0	13.	10				
Va.	416	1.	4	t	+	t	+	0	0	1.2	5				
*W.Va.	111	-	-	-	-	-	-	-	-	-	-				
N.C.	281	4.	13	t	+	10.	33	t	+	14.	46				
*S.C.	72	-	-	-	-	-	-	-	-	-	-				
*Ga.	244	-	-	-	-	-	-	-	-	-	-				
*Fla.	127	-	-	-	-	-	-	-	-	-	-				
*Ky.	411	-	-	-	-	-	-	-	-	-	-				
Tenn.	284	50.	284	-	-	-	-	0	0	50.	284				
*Ala.	211	-	-	-	-	-	-	-	-	-	-				
*Miss.	157	-	-	-	-	-	-	-	-	-	-				
*Ark.	214	-	-	-	-	-	-	-	-	-	-				
*La.	70	-	-	-	-	-	-	-	-	-	-				
Okla.	141	1.	1	-	-	-	-	-	-	1.	1				
Texas	412	0.5	2	-	-	-	-	-	-	1.	4				
Idaho	56	7.	5	0	0	0	0	2.	1	16.	11				
*Colo.	153	-	-	-	-	-	-	-	-	-	-				
*N.M.	59	-	-	-	-	-	-	-	-	-	-				
*Ariz.	8	-	-	-	-	-	-	-	-	-	-				
*Utah	64	-	-	-	-	-	-	-	-	-	-				
*Nev.	4	-	-	-	-	-	-	-	-	-	-				
*Wash.	5,694	t	+	-	-	-	-	-	-	-	-				
*Oreg.	3,621	t	+	t	+	-	-	-	-	-	-				
*Calif.	9,822	-	-	-	-	-	-	-	-	-	-				
U.S.	30,139	7.5	648	0.1	13	0.4	36	t	1	8.1	709				

* Omitted in calculations for U. S. percentage loss.

CHERRY

Table 18. Estimated reduction in yield due to brown rot (Sclerotinia fructicola), leaf spot (Coccomyces hiemalis), California blight (Coryneum beijerinckii), buck skin and mottle leaf (virus), and other diseases, 1937.

State	Production Tons	Estimated reduction in yield due to diseases: Brown Rot %	Brown Rot Tons	Leaf Spot %	Leaf Spot Tons	California Blight %	California Blight Tons	Virus Diseases %	Virus Diseases Tons	All Diseases %	All Diseases Tons
N.Y.	21,750	-	-	0.5	110	-	-	0	0	1.	220
Pa.	9,890	20.	3,353	20.	3,353	-	-	0	0	41.	6,874
Ohio	7,340	1.	78	5.	390	-	-	0	0	6.	468
Ind.		0.5	+	5.	+	-	-	0	0	5.5	+
Ill.		2.	+	10.	+	-	-	0	0	12.	+
Mich.	35,840	t	+	10.	3,982	0	0	t	+	10.	3,982
Wis.	13,500	t	+	2.	276	0	0	0	0	2.	276
Md.		4.	+	5.	+	-	-	0	0	9.	+
Va.		8.5	+	2.5	+	-	-	-	-	11.5	+
W.Va.		t	+	0.5	+	-	-	0	0	1.	+
N.C.		15.	+	t	+	-	-	0	0	15.	+
Tenn.		t	+	20.	+	-	-	-	-	20.	+
Mont.	340	-	-	t	+	-	-	-	-	t	+
Idaho	1,760	0	0	0	0	t	+	0.5	92	2.5	45
*Colo.	3,460	-	-	-	-	-	-	-	-	-	-
*Utah	2,100	-	-	-	-	-	-	-	-	-	-
*Wash.	13,500	-	-	-	-	-	-	+	-	-	-
*Oreg.	12,400	-	-	-	-	-	-	-	-	-	-
*Calif.	20,000	-	-	-	-	-	-	-	-	-	-
12 States	141,880	3.4	3,431	7.9	8,111	-	-	t	9	11.6	11,865

* Omitted in calculations for U. S. percentage loss.

Table 19. Estimated reduction in yield due to bitter rot (Glomerella cingulata), black rot (Physalospora obtusa), blotch (Phyllosticta solitaria), rusts (Gymnosporangium spp.), fire blight (Bacillus amylovorus), scab (Venturia inaequalis), and other diseases, 1937.

State	Production	Estimated reduction in yield due to diseases																	
		Bitter Rot		Black Rot		Blotch		Rusts		Fire Blight		Scab		All Diseases					
	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
Maine	1,147	-	-	-	-	0	0	-	-	-	-	2.	23	2.	23				
N.H.	1,204	t	+	t	+	t	+	-	-	t	+	10.	134	10.	134				
*Vt.	1,175	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Mass.	3,465	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*R.I.	345	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Conn.	2,122	-	-	-	-	-	-	2.	48	-	-	10.	241	12.	289				
N.Y.	24,700	-	-	0.1	26	0.1	26	0.5	132	0.1	26	5.	1,318	6.3	1,660				
*N.J.	5,463	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Pa.	16,728	t	+	4.5	1,028	1.	229	1.3	297	1.5	343	15.	3,429	26.8	6,126				
Ohio	12,636	0.5	76	t	+	t	+	1.	151	t	+	15.	2,270	16.5	2,497				
Ind.	3,757	0.1	4	0.1	4	0.1	4	2.5	104	0.1	4	7.	292	10.	416				
Ill.	8,960	t	+	2.	197	t	+	t	+	t	+	5.	492	9.	886				
Mich.	14,432	0	0	t	+	0	0	-	-	t	+	5.	760	5.	760				
Wis.	2,080	t	+	t	+	t	+	1.	22	1.	22	3.	66	5.	110				
Minn.	737	0	0	0	0	0	0	2.	16	2.	16	1.5	12	6.	48				
Iowa	1,174	0	0	1.	13	t	+	1.	13	3.	39	5.	65	10.	130				
Mo.	4,214	-	-	-	-	t	+	0.5	22	-	-	2.	86	2.5	108				
N.D.		-	-	-	-	-	-	t	+	1.5	+	t	+	1.5	+				
*S.D.	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Nebr.	477	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Kans.	1,449	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Del.	2,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Md.	2,847	3.	101	2.	67	0.5	17	1.	34	1.5	51	5.	168	15.5	522				
Va.	18,000	0.5	102	t	+	t	+	1.	204	0.2	41	8.5	1,733	12.7	2,590				
W.Va.	10,004	0.1	10	0.1	10	0.1	10	0.5	52	0.1	10	1.	103	3.	308				
N.C.	4,505	3.	183	t	+	5.	304	1.	61	2.	122	10.	609	26.	1,583				
*S.C.	363	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

State	Production	Estimated reduction in yield due to diseases																	
		Bitter Rot		Black Rot		Blotch		Rusts		Fire Blight		Scab		All Diseases					
	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*S.C.	363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Apple (Continued)

State	Production	Estimated reduction in yield due to diseases																	
		Bitter Rot		Black Rot		Blotch		Rusts		Fire Blight		Scab		All Diseases					
	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Ga.	1,483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	3,870	5.	265	t	+	2.	106	t	+	5.	265	10.	530	27.	1,431				
Tenn.	3,354	6.	261	1.	44	1.	44	t	+	5.	218	10.	436	23.	1,003				
*Ala.	878	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Miss.	219	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Ark.	2,295	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*La.	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Okla.	648	-	-	-	-	3.	20	t	+	1.	7	1.	7	5.	34				
Texas	170	-	-	-	-	t	+	0.5	1	0.5	1	t	+	1.	2				
Mont.	562	-	-	-	-	-	-	-	-	3.	17	t	+	3.	17				
Idaho	5,124	0	0	0	0	0	0	0	0	t	+	t	+	1.	52				
Wyo.	48	-	-	-	-	-	-	-	-	5.	+	-	-	5.	+				
*Colo.	1,457	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*N.M.	1,132	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Ariz.	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Utah	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Nev.	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Wash.	30,340	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Oreg.	3,763	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
*Calif.	10,292	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
U. S.	211,060	0.6	1,002	0.8	1,389	0.5	760	0.7	1,157	0.7	1,182	7.8	12,774	12.6	20,729				

* Omitted in calculations for U. S. percentage loss.

PEACH

Table 20. Estimated reduction in yield due to leaf curl (Taphrina deformans), brown rot (Sclerotinia fructicola), California blight (Coryneum beijerinckii), scab (Cladosporium carpophilum), bacterial spot (Bacterium pruni), virus diseases, and other diseases, 1937.

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases: Leaf Curl %	Leaf Curl 1,000 Bushels	Brown Rot %	Brown Rot 1,000 Bushels	California Blight %	California Blight 1,000 Bushels	Scab %	Scab 1,000 Bushels	Bacterial Spot %	Bacterial Spot 1,000 Bushels	Virus Diseases %	Virus Diseases 1,000 Bushels	All Diseases %	All Diseases 1,000 Bushels
*N. H.	24	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*Mass.	107	-	-	-	-	0	0	-	-	-	-	-	-	-	-
*R. I.	27	-	-	-	-	0	0	-	-	-	-	-	-	-	-
Conn.	177	0	0	5.	10	0	0	5.	10	1.	2	1.	2	12.	24
N. Y.	1,806	1.	19	1.5	28	0	0	t	+	t	+	t	+	2.5	47
*N. J.	1,651	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	2,673	2.	53	10.	267	0	0	3.	80	t	+	0.1	3	16.1	430
Ohio	1,296	t	+	5.	68	t	+	t	+	t	+	t	+	5.	68
Ind.	402	0.1	+	0.5	2	-	-	0.1	+	-	-	-	-	0.7	2
Ill.	2,117	-	-	3.	66	0	0	t	+	1.	22	-	-	4.	88
Mich.	2,652	5.	156	10.	312	t	+	t	+	0.	0	t	+	15.	468
Iowa	87	2.	2	0	0	0	0	5.	5	-	-	0	0	7.	7
Mo.	1,728	t	+	0.5	9	-	-	-	-	-	-	-	-	0.5	9
*Nebr.	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.	256	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Del.	398	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	448	3.	16	8.	43	t	+	2.	11	0.5	3	0.5	3	14.	76
Va.	1,599	1.	17	2.	33	-	-	t	+	0.5	8	t	+	3.5	58
W. Va.	528	0.5	3	0.5	3	-	-	0.5	3	-	-	t	+	2.	12
N. C.	1,984	t	+	11.	266	-	-	1.	24	3.	73	-	-	18.	436
*S. C.	1,080	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ga.	2,730	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	1,369	t	+	5.	76	-	-	5.	76	-	-	0	0	10.	152
Tenn.	1,860	2.	42	10.	211	-	-	t	+	t	+	t	+	12.	253

Ky.	:	1,389	:	t	:	+	:	5.	:	78	:	-	:	-	:	5.	:	78	:	-	:	-	:	0	:	10.	:	152
Tenn.	:	1,860	:	2.	:	42	:	10.	:	211	:	-	:	-	:	t	:	+	:	t	:	+	:	t	:	+	:	12.	:	253

Peach (Continued)

State	Production 1,000 Bushels	Estimated reduction in yield due to diseases: Leaf Curl %	Leaf Curl 1,000 Bushels	Brown Rot %	Brown Rot 1,000 Bushels	California Blight %	California Blight 1,000 Bushels	Scab %	Scab 1,000 Bushels	Bacterial Spot %	Bacterial Spot 1,000 Bushels	Virus Diseases %	Virus Diseases 1,000 Bushels	All Diseases %	All Diseases 1,000 Bushels
*Ala.	990	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ark.	2,288	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*La.	269	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	1,073	1.	11	2.	23	-	-	1.	11	1.	11	t	+	5.	56
Texas	1,392	0.1	1	5.	75	-	-	-	-	0.1	1	1.5	22	6.7	99
Idaho	14	0.5	+	0	0	2.	+	0	0	0	0	0	0	12.5	2
*Colo.	1,522	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N. M.	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Utah	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Nev.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	935	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.	241	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.	23,141	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	59,626	1.3	320	5.9	1,492	-	-	0.9	220	0.5	120	t	30	9.	2,287

* Omitted in calculations for U. S. percentage loss.

STRAWBERRY

Table 21. Estimated reduction in yield due to leaf spot (Mycosphaerella fragariae), leaf scorch (Diplocarpon earliana), black root rot (various), dwarf (Aphelenchoides fragariae), fruit rots (Botrytis, Rhizoctonia, and others), virus diseases, and other diseases, 1937.

State	Production 1,000 Crates°	Estimated reduction in yield due to diseases															
		Leaf Spot		Leaf Scorch		Black Root Rot		Dwarf		Fruit Rots		Virus Diseases		All Diseases			
		%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates		
Maine		1.	+	-	-	2.	+	-	-	0.5	+	0.5	+	4.	+		
Conn.		-	-	-	-	-	-	-	-	15.	+	-	-	15.	+		
N. Y.	280	t	+	-	-	-	-	-	-	-	-	-	-	t	+		
*N. J.	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pa.	480	1.5	9	3.	17	12.	69	-	-	-	-	-	-	16.5	95		
Ohio	328	t	+	t	+	t	+	-	-	2.	7	-	-	2.	7		
Ind.	182	0.1	+	t	+	-	-	-	-	-	-	-	-	0.1	+		
Ill.	216	1.	2	t	+	5.	12	-	-	-	-	-	-	6.	14		
Mich.	945	2.	25	t	+	20.	245	-	-	-	-	-	-	22.	270		
Wis.	168	t	+	t	+	-	-	-	-	-	-	t	+	t	+		
Minn.		2.	+	0	0	5.	+	0	0	-	-	t	+	9.	+		
*Iowa	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Mo.	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N. D.		t	+	-	-	-	-	-	-	-	-	-	-	t	+		
*Kans.	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Del.	338	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Md.	616	2.	15	1.	7	6.	44	t	+	3.	22	-	-	15.	110		
Va.	630	5.	36	1.	7	5.	36	-	-	-	-	-	-	12.	86		
N. C.	644	15.	153	10.	102	0	0	5.	51	5.	51	0	0	37.	377		
*S. C.	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Ga.	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Fla.	572	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Strawberry (Continued)

State	Production 1,000 Crates°	Estimated reduction in yield due to diseases															
		Leaf Spot		Leaf Scorch		Black Root Rot		Dwarf		Fruit Rots		Virus Diseases		All Diseases			
		%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates	%	1,000 Crates		
*Ky.	275	-	-	-	-	-	-	-	-	t	+	-	-	-	-		
Tenn.	923	2.	28	10.	140	10.	140	t	+	12.	168	t	+	34.	476		
*Ala.	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Miss.	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Ark.	259	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
La.	1,443	10.	217	3.	65	-	-	0.5	11	20.	434	-	-	33.5	727		
Okla.	6	2.	+	t	+	-	-	-	-	-	-	-	-	2.	+		
Texas	148	0.1	+	-	-	1.5	2	-	-	-	-	-	-	1.7	2		
Mont.		t	+	-	-	5.	+	-	-	-	-	5.	+	10.	+		
Idaho		1.	+	-	-	10.	+	-	-	10.	+	1.	+	27.5	+		
*Utah	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
*Wash.	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Oreg.	1,050	0.2	3	0	0	3.	48	0	0	4.	64	25.	399	34.2	546		
*Calif.	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
U. S.	12,221	4.5	488	3.1	338	5.5	596	0.6	62	6.9	746	3.7	399	25.1	2,710		

° 24-quart crate, 36 pounds.
* Omitted in calculations for U. S. percentage loss.

Table 22. Estimated reduction in yield due to black rot (Guignardia bidwellii), powdery mildew (Uncinula necator), downy mildew (Plasmopara viticola), crown gall (Bacterium tumefaciens), fruit rots (various organisms), and other diseases, 1937.

State	Production Tons	Estimated reduction in yield due to diseases											
		Black Rot		Powdery Mildew		Downy Mildew		Crown Gall		Fruit Rots		All Diseases	
		%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons
*Maine	30		-	-	-	-	-	-	-	-	-	-	-
*N. H.	120	-	-	-	-	-	-	-	-	-	-	-	-
*Vt.	50	-	-	-	-	-	-	-	-	-	-	-	-
*Mass.	900	-	-	-	-	-	-	-	-	-	-	-	-
*R. I.	370	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	2,520	10.	280	-	-	-	-	-	-	-	-	10.	280
N. Y.	89,100	1.	914	0.5	457	1.	914	t	+	-	-	2.5	2,285
*N. J.	4,000	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	26,000	20.	6,582	t	+	1.	329	-	-	-	-	21.	6,911
Ohio	37,800	1.	382	t	+	t	+	-	-	-	-	1.	382
Ind.	5,300	4.	221	-	-	0.1	6	-	-	-	-	4.1	227
Ill.	8,600	2.	176	0	0	t	+	-	-	-	-	2.	176
Mich.	67,200	5.	3,733	t	+	t	+	-	-	-	-	10.	7,466
Wis.	450	t	+	-	-	t	+	t	+	t	+	t	+
*Minn.	260	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	5,000	2.	105	t	+	3.	158	-	-	-	-	5.	263
*Mo.	12,300	-	-	-	-	-	-	-	-	-	-	-	-
*Nebr.	1,800	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.	3,600	-	-	-	-	-	-	-	-	-	-	-	-
*Del.	2,200	-	-	-	-	-	-	-	-	-	-	-	-
Md.	750	12.	105	1.	9	1.	9	t	+	-	-	14.	123
Va.	3,000	20.	811	2.	81	4.	162	-	-	-	-	26.	1,054
*W. Va.	1,900	-	-	-	-	-	-	-	-	-	-	-	-
N. C.	8,100	15.	1,736	5.	579	t	+	t	+	10.	1,157	30.	3,472
*S. C.	1,990	-	-	-	-	-	-	-	-	-	-	-	-

Grape (Continued)

Grape (Continued)

State	Production Tons	Estimated reduction in yield due to diseases															
		Black Rot		Powdery Mildew		Downy Mildew		Crown Gall		Fruit Rots		All Diseases					
		%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons
*Ga.	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fla.	710	10.	85	-	-	0	0	-	-	-	-	-	-	-	-	16.	136
*Ky.	2,960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	2,650	10.	294	t	+	t	+	t	+	-	-	-	-	-	-	10.	294
*Ala.	1,680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ark.	12,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*La.	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	4,000	4.	167	-	-	-	-	t	+	-	-	-	-	4.	167		
Texas	2,900	10.	324	t	+	t	+	t	+	-	-	-	-	10.4	337		
Idaho	470	0	0	0	0	0	0	t	+	-	-	-	-	5.	25		
*Colo.	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N. M.	1,180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Utah	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Nev.	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	4,170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.	2,150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.	2,409,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	2,731,980	5.5	15,915	0.4	1,126	0.5	1,578	t	+	0.4	1,157	8.1	23,598				

* Omitted in calculations for U. S. percentage loss.